

Midterm Presentation

AI-based Vocabulary Application



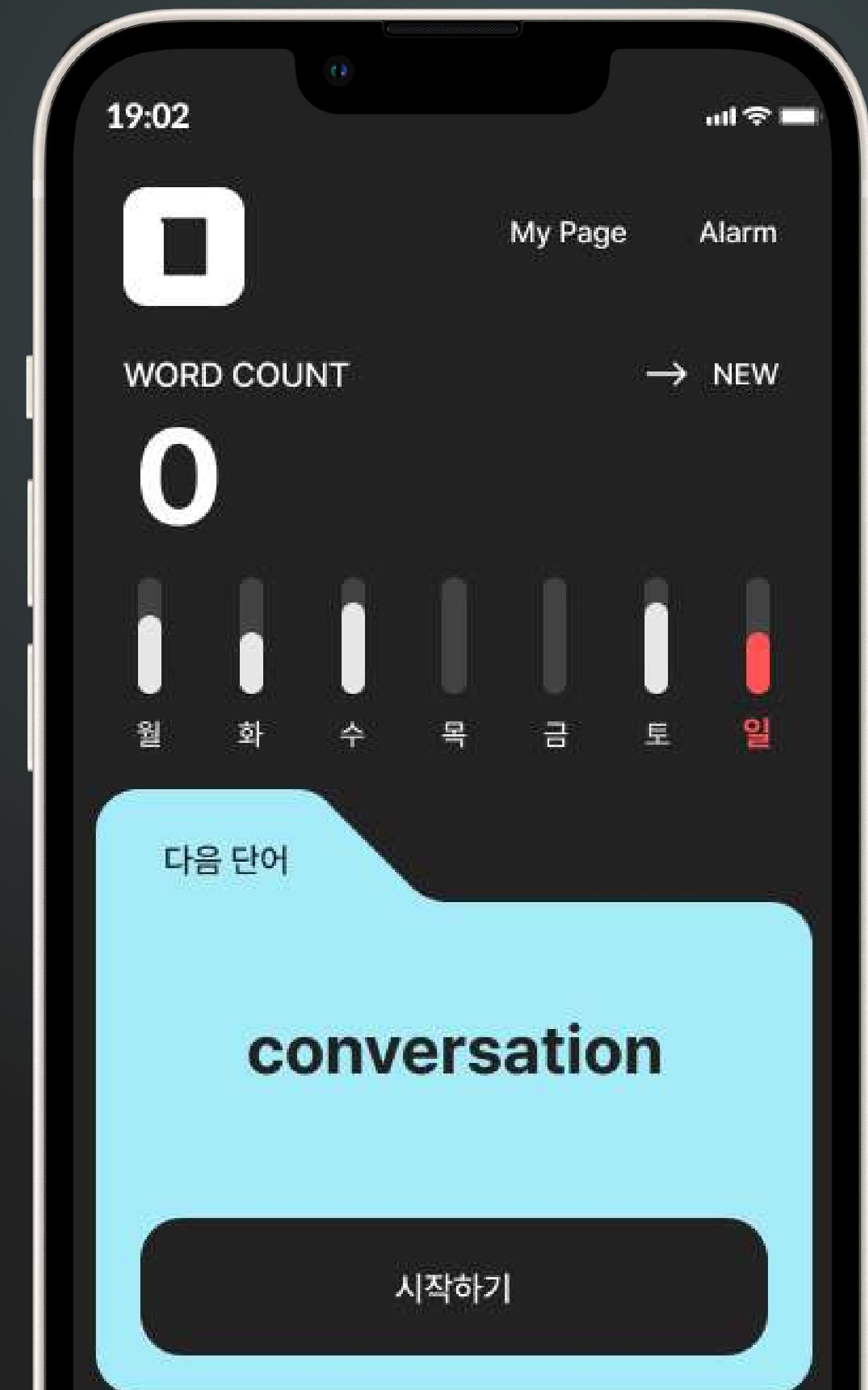
D조

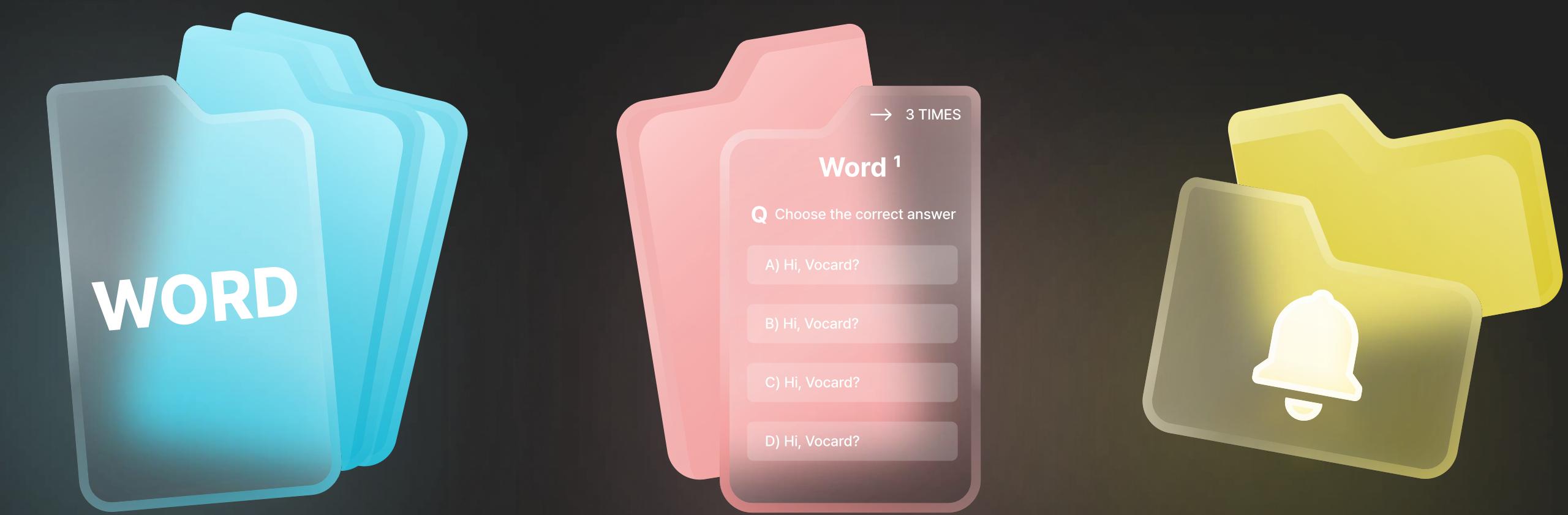
김민지

어영준

조예현

강창우





Vocabulary Learning Application that helps you learn English words efficiently with the help of powerful AI tools

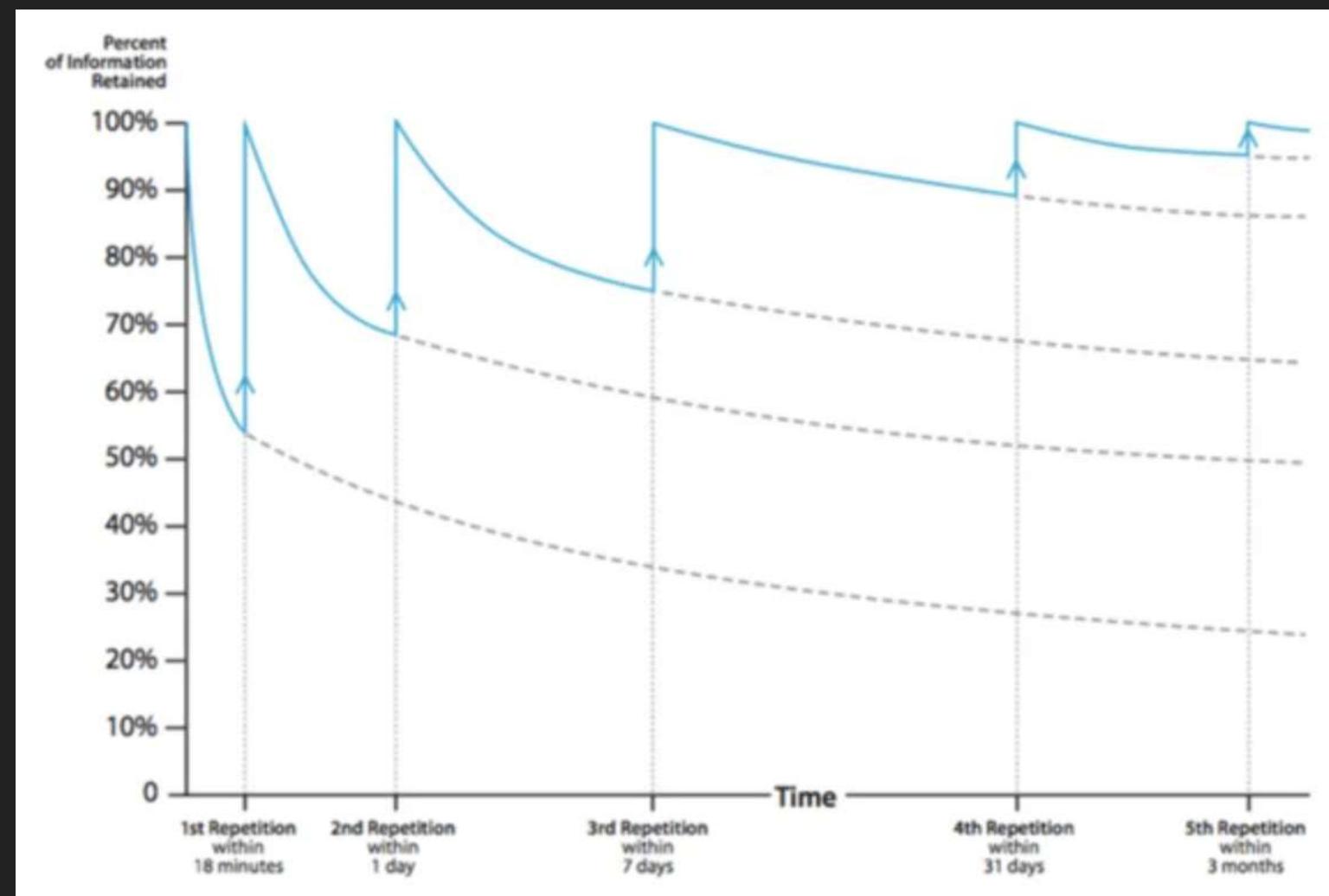


Project Goal

1. Minimize development costs

2. Maximize memorization efficiency

- Forgetting Curve



→ Rate of Forgetting with Study/Repetition

- Practical application of newly learned vocabulary



Project progress

Team Member Roles

Frontend

Yehyun Jo

Changwoo Kang

Backend

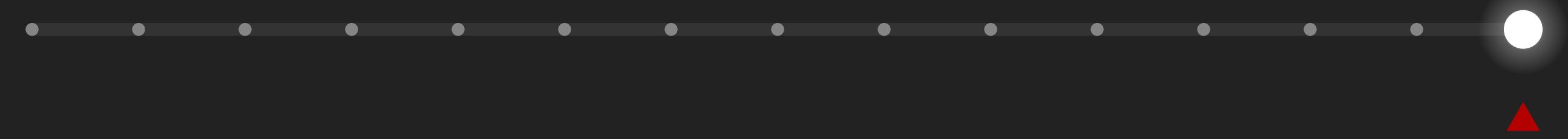
Young Joon Eo

Design

Minji Kim

Project Timeline

W1

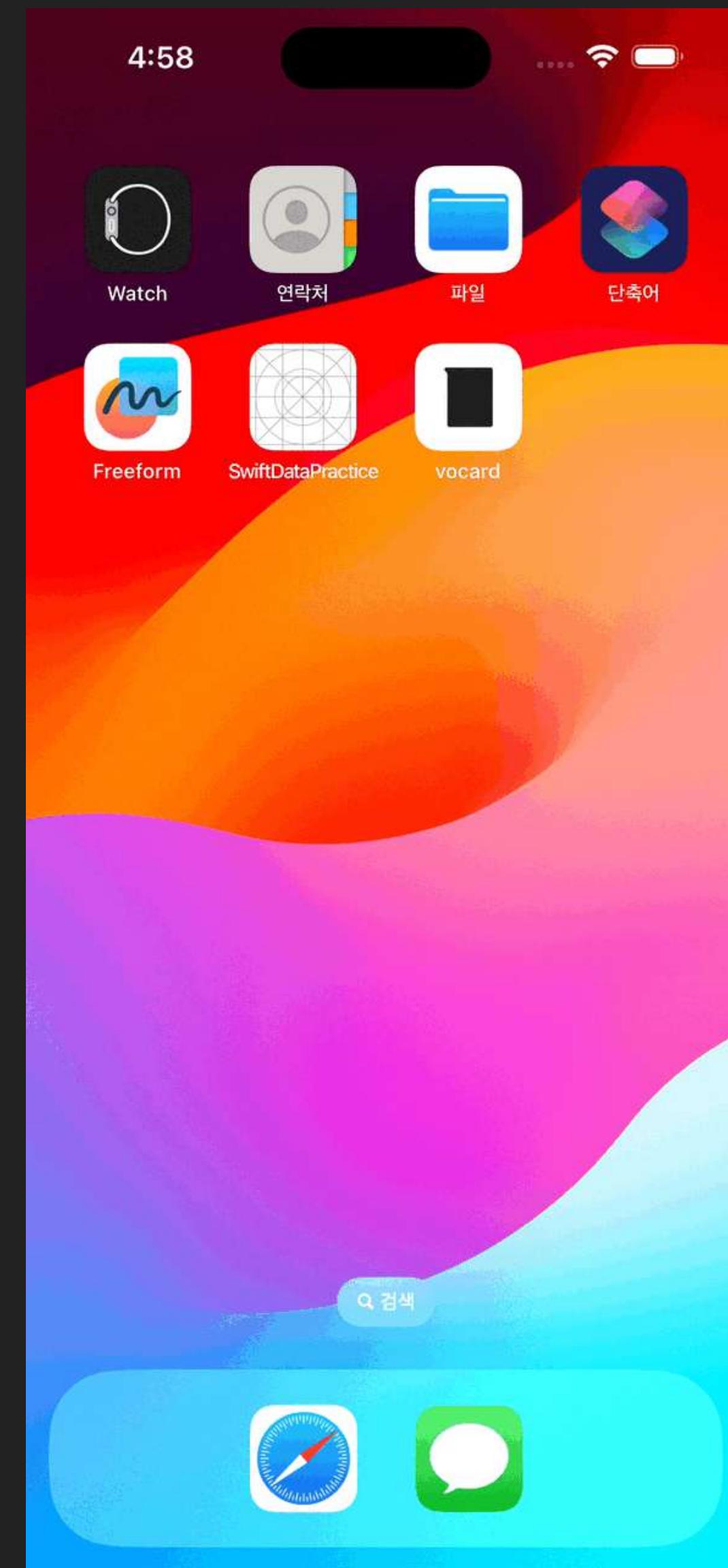


Milestones

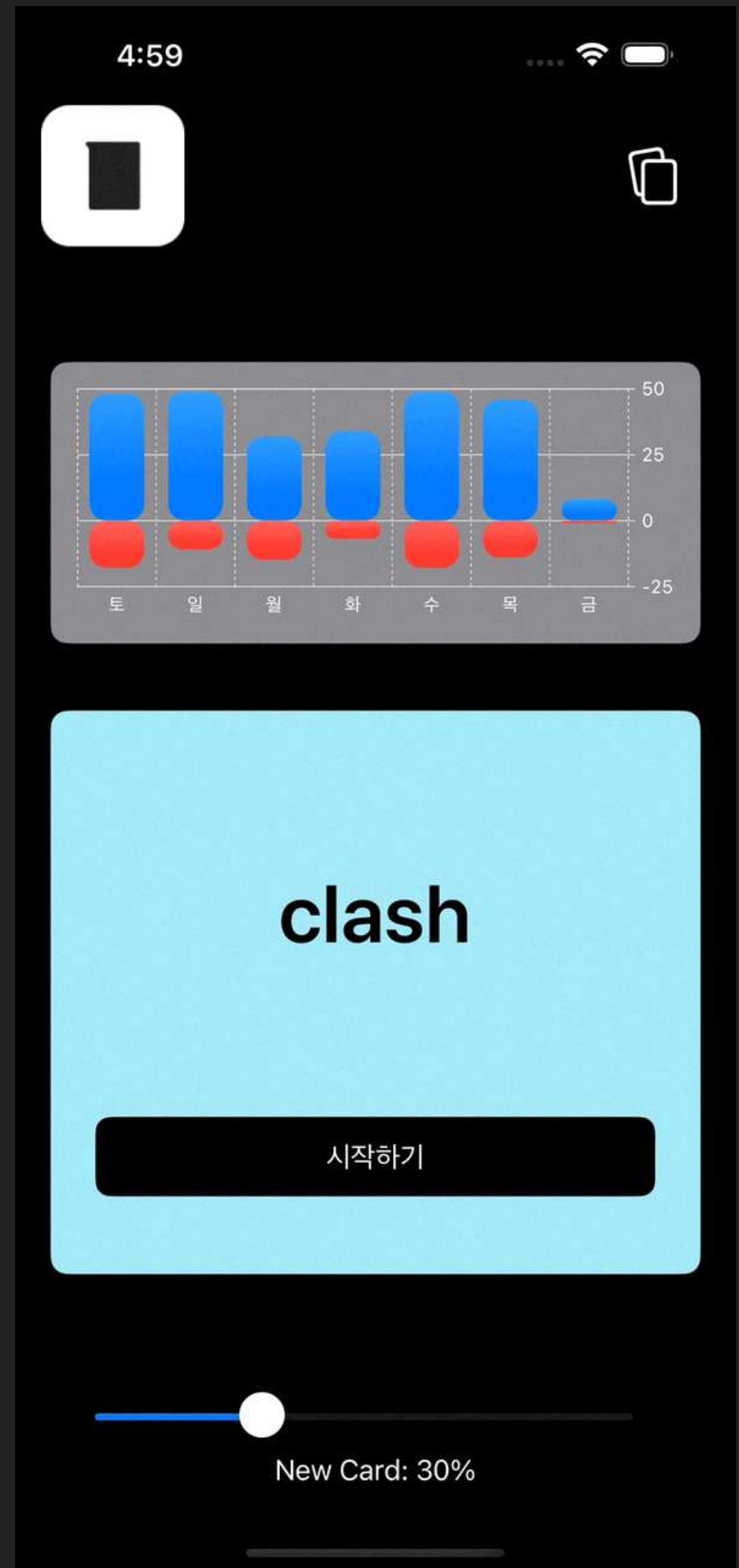
1. Finalized Design Structure & Information Architecture
2. Finalized API Endpoints
3. Finalized Alpha Build



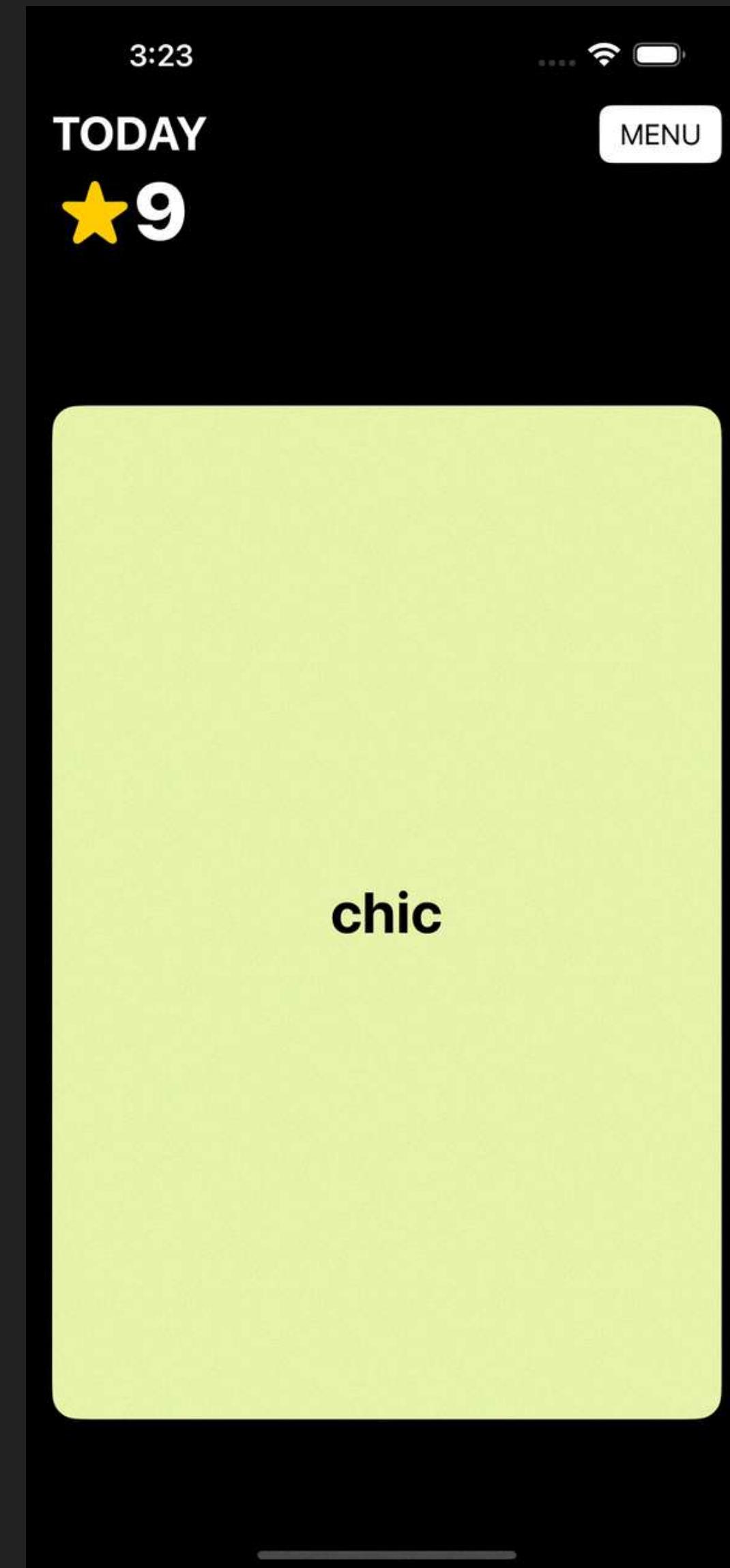
Final Design



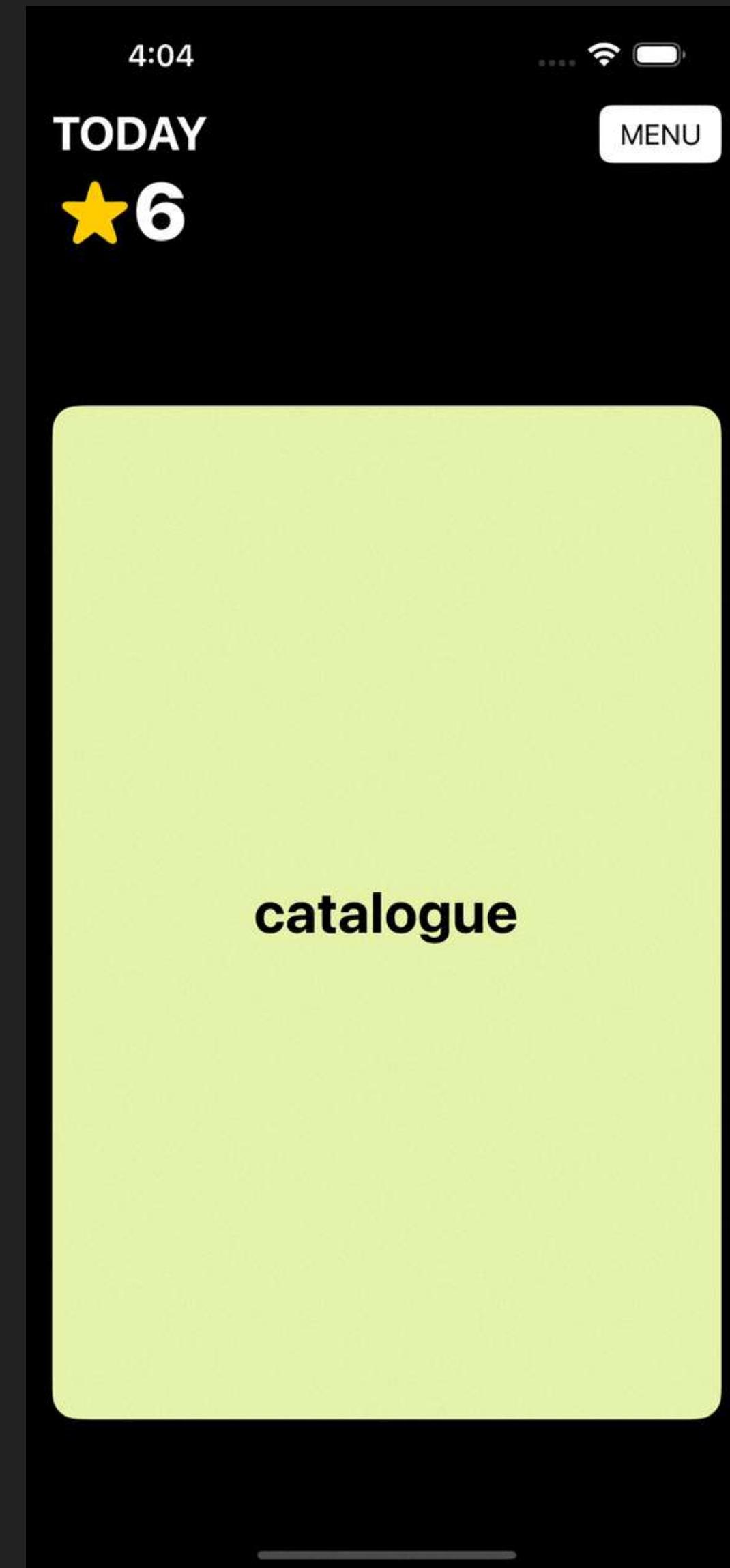
Final Design



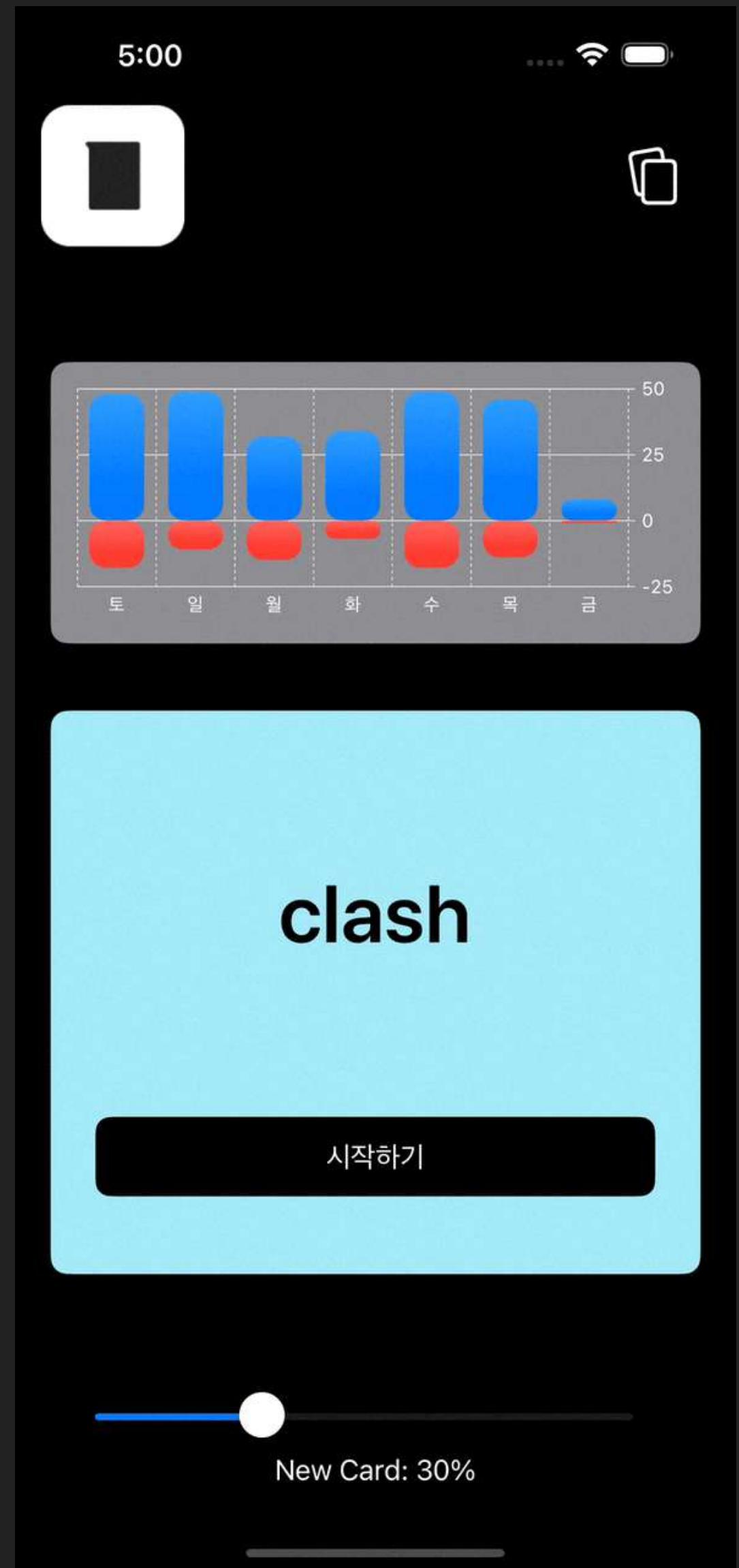
Final Design



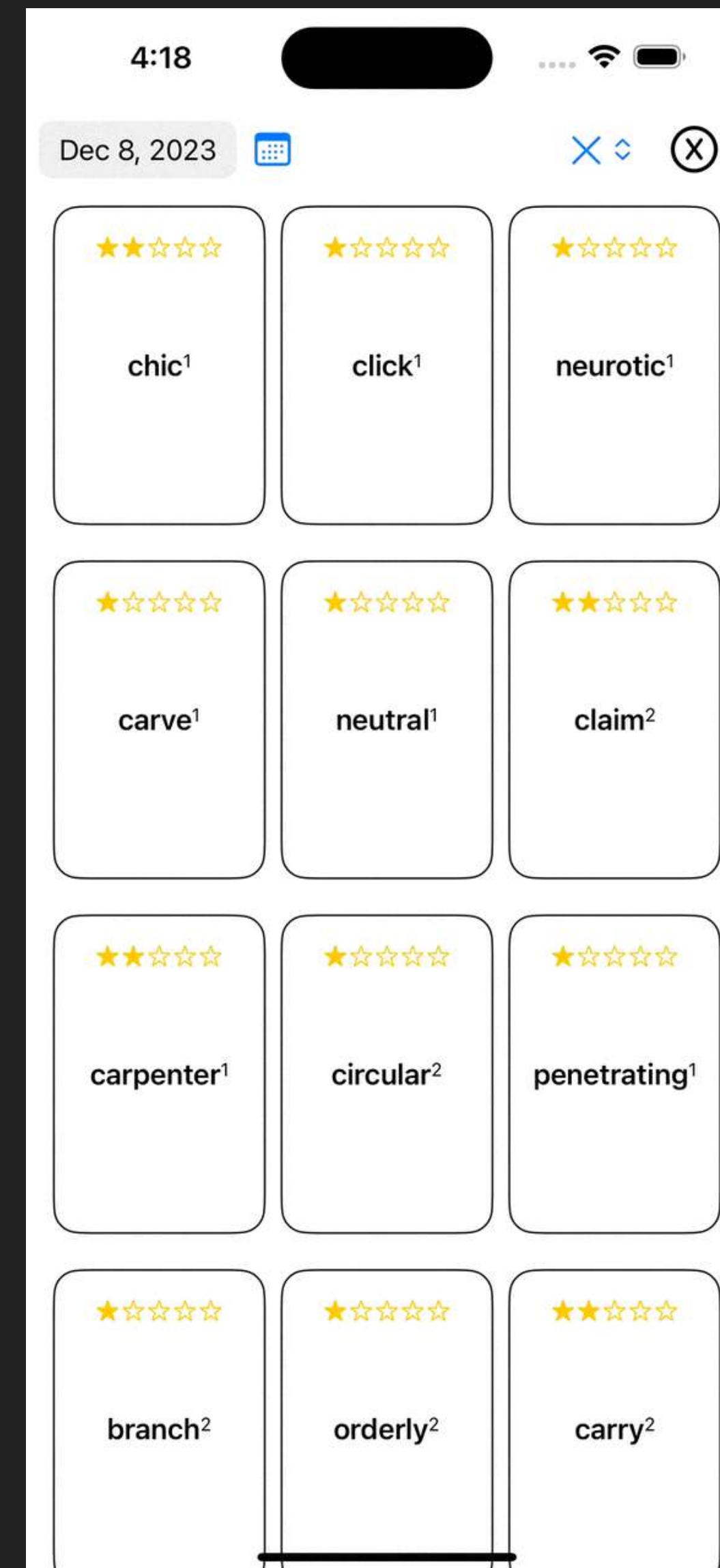
Final Design



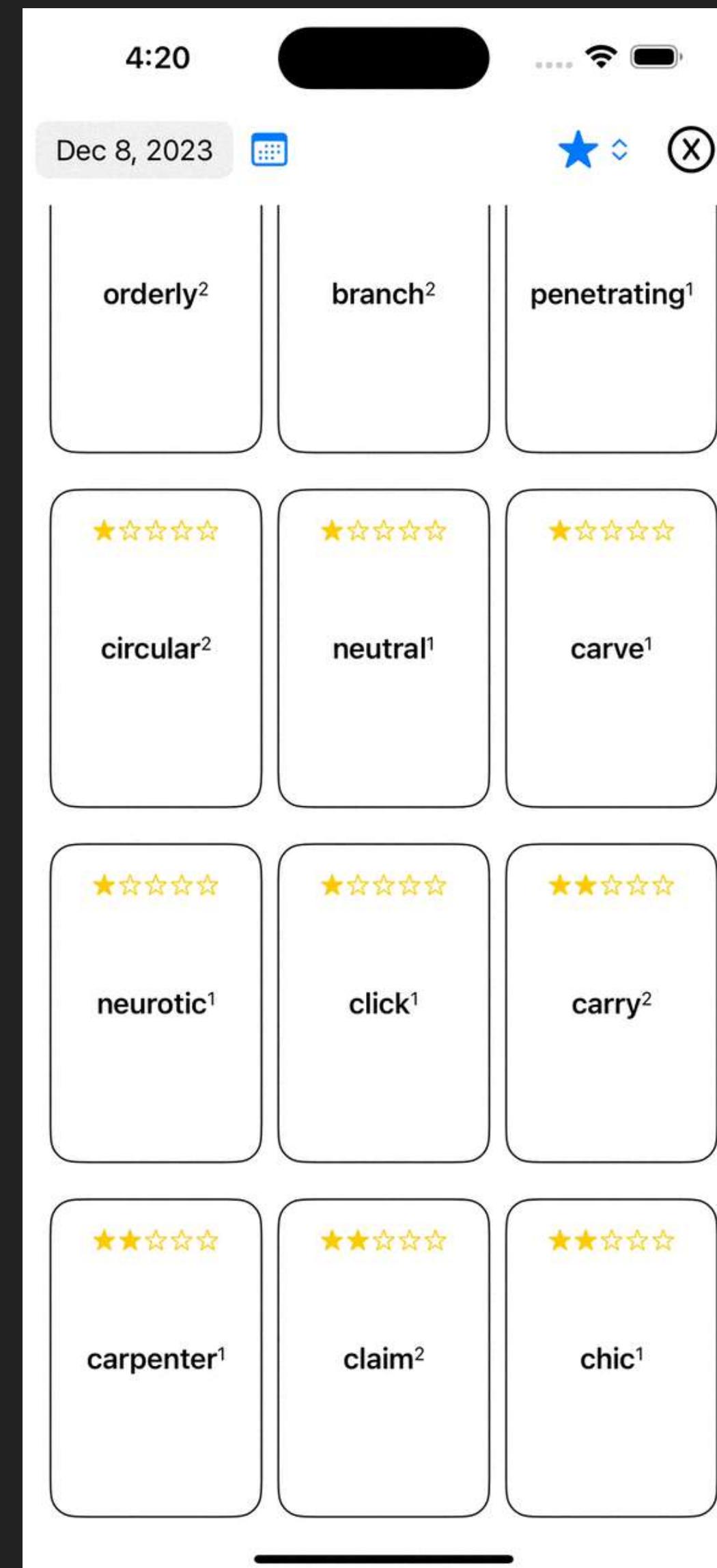
Final Design



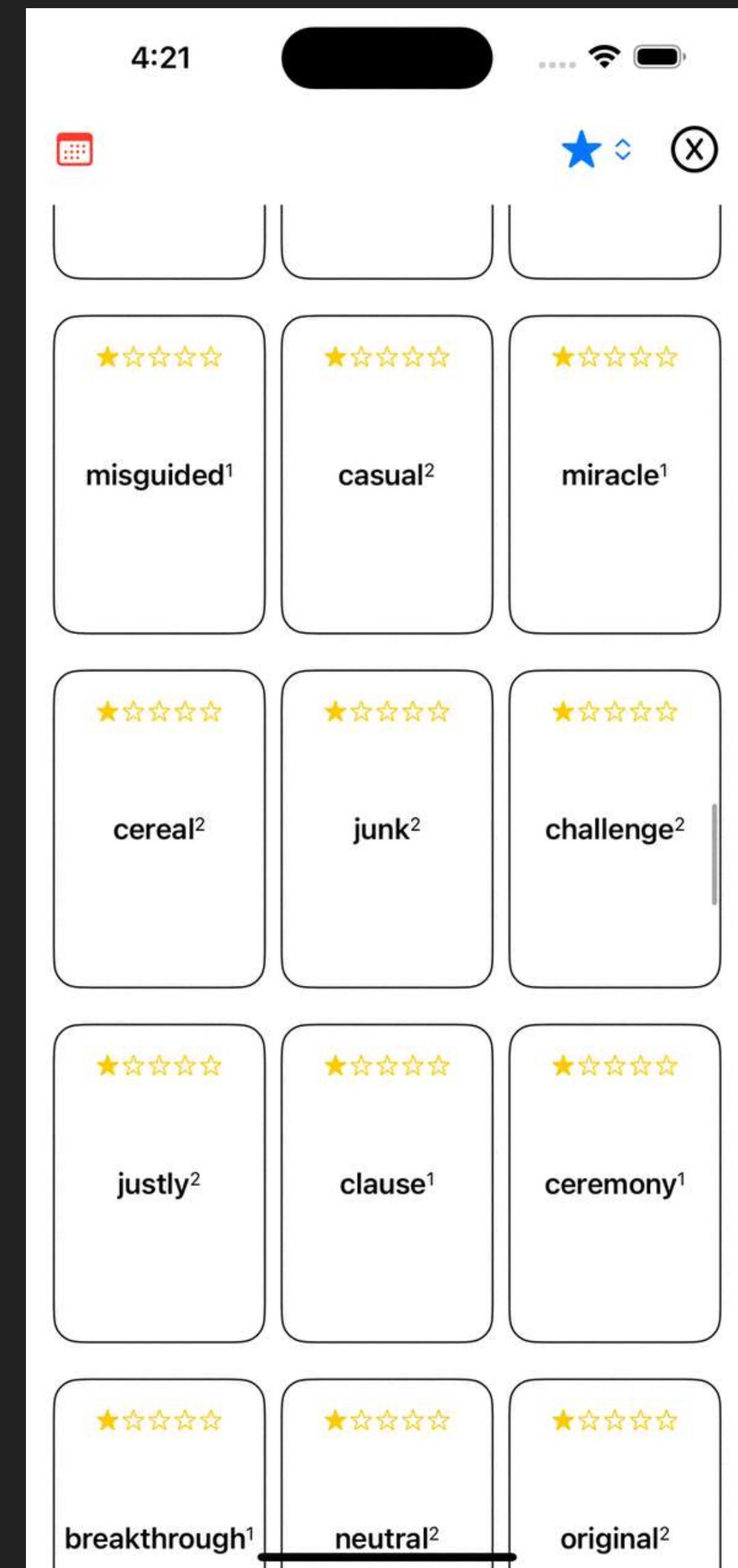
Final Design



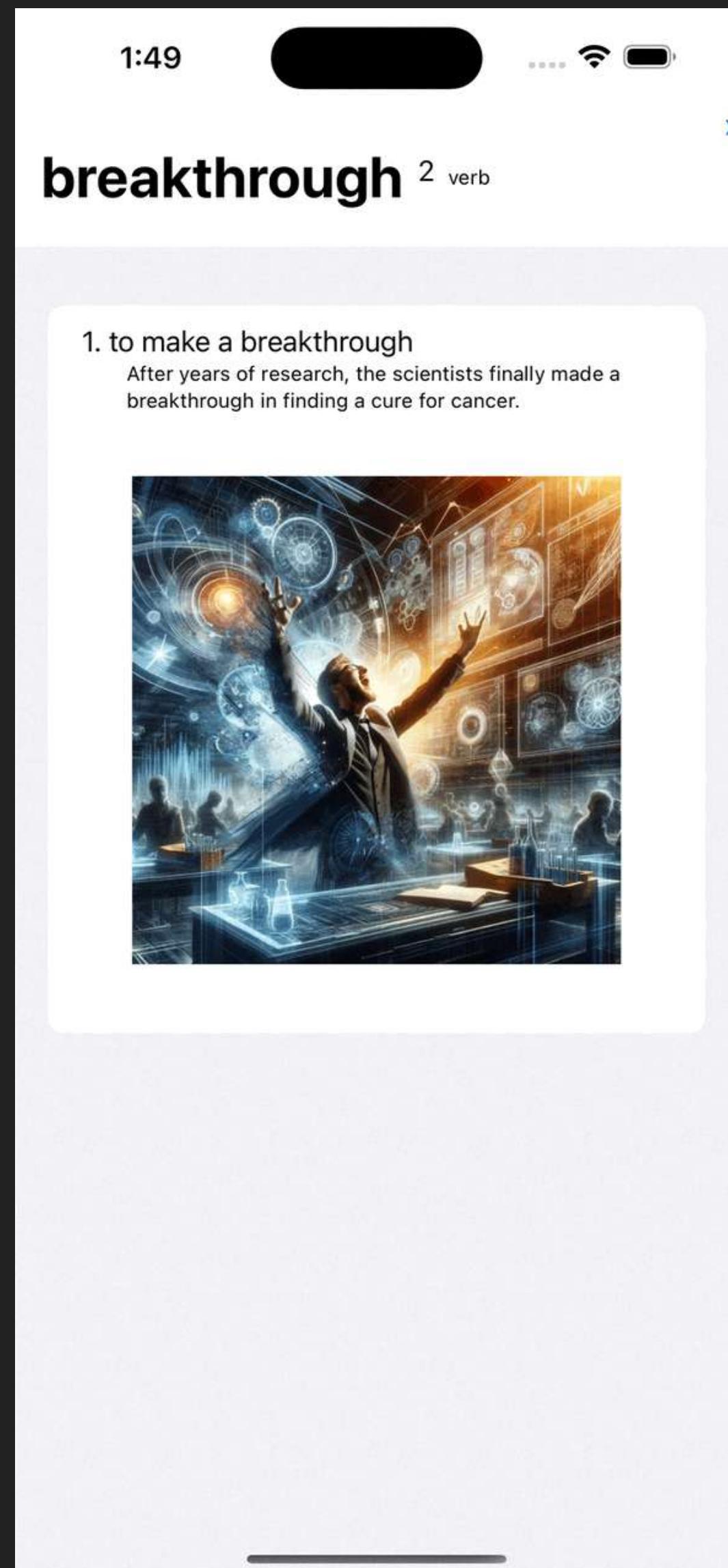
Final Design



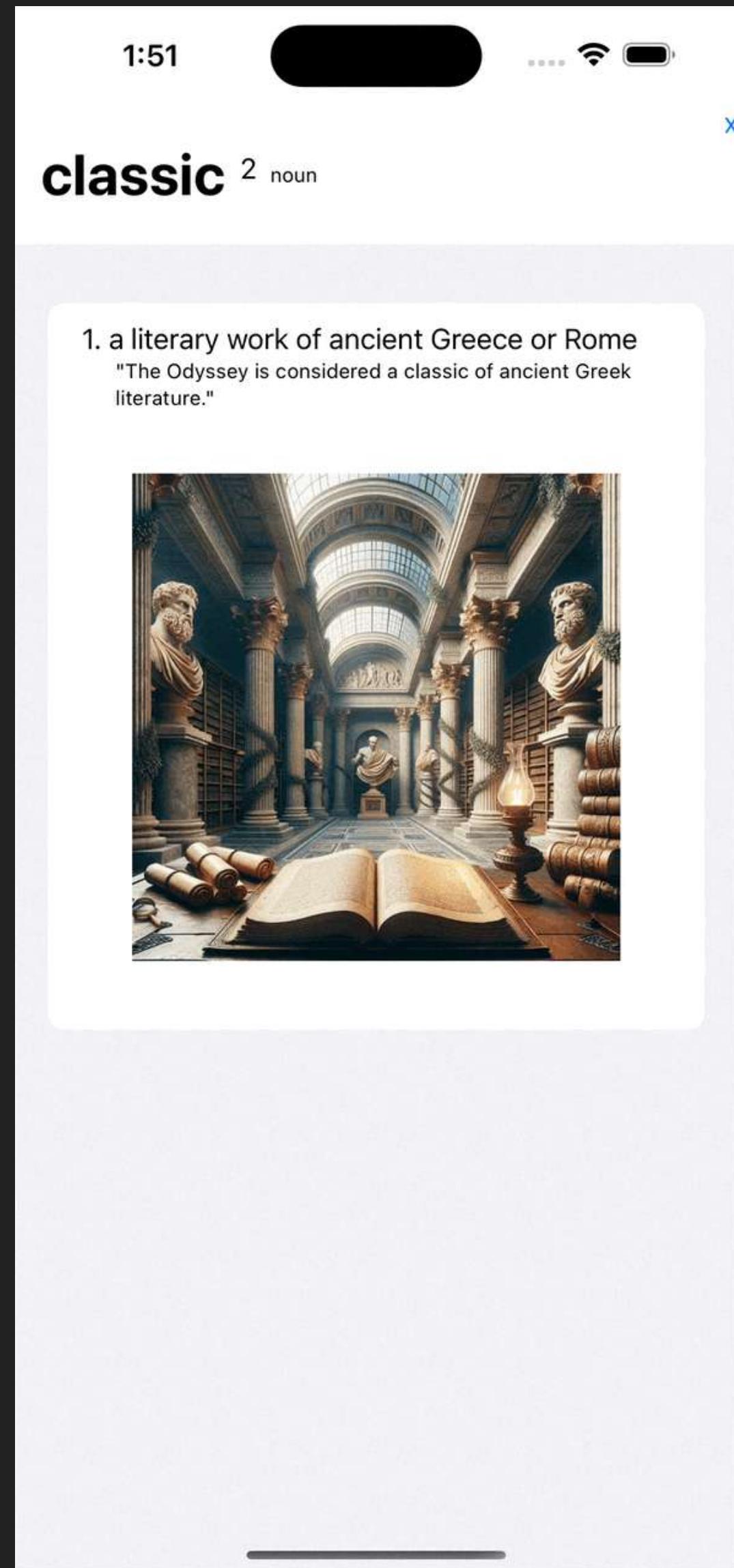
Final Design



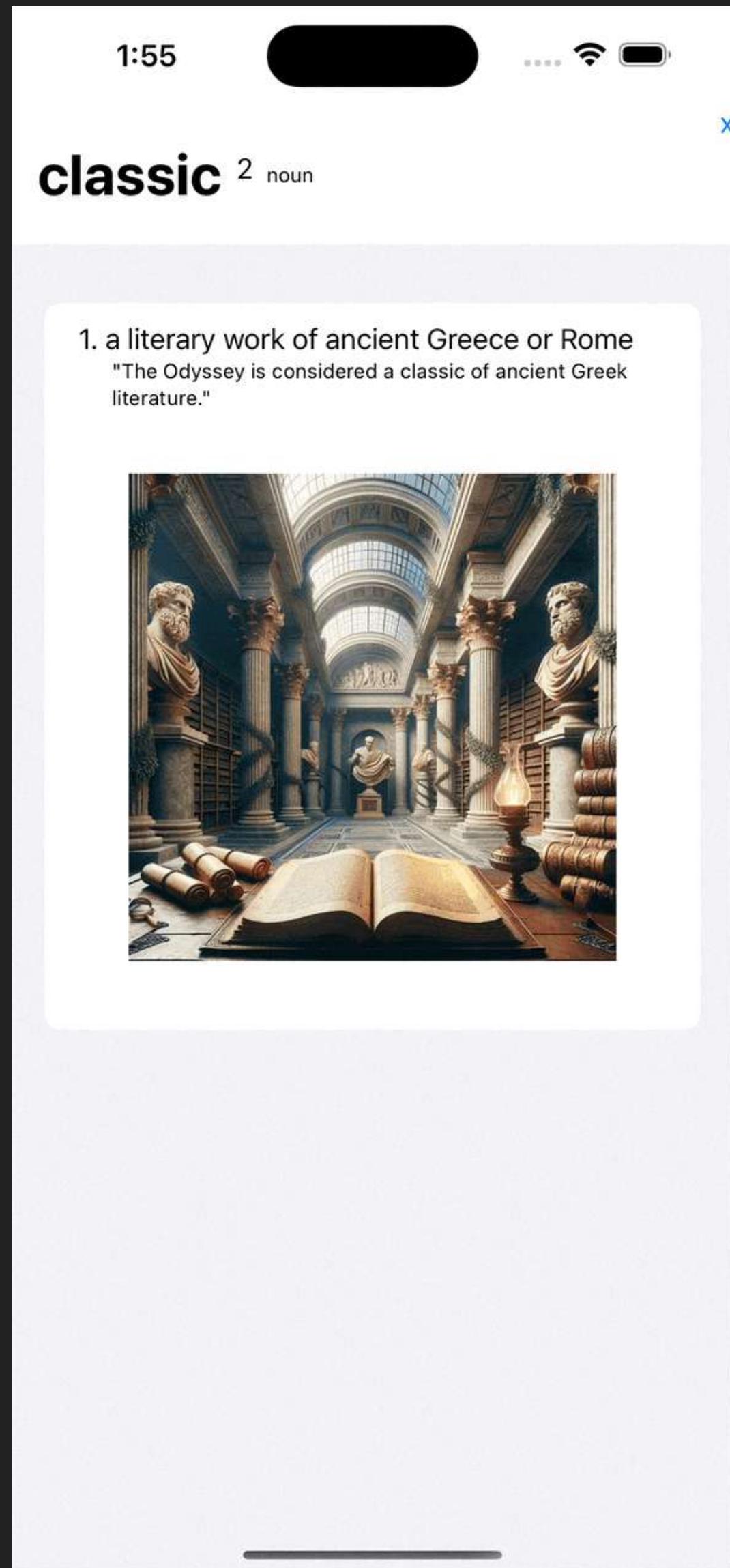
Final Design



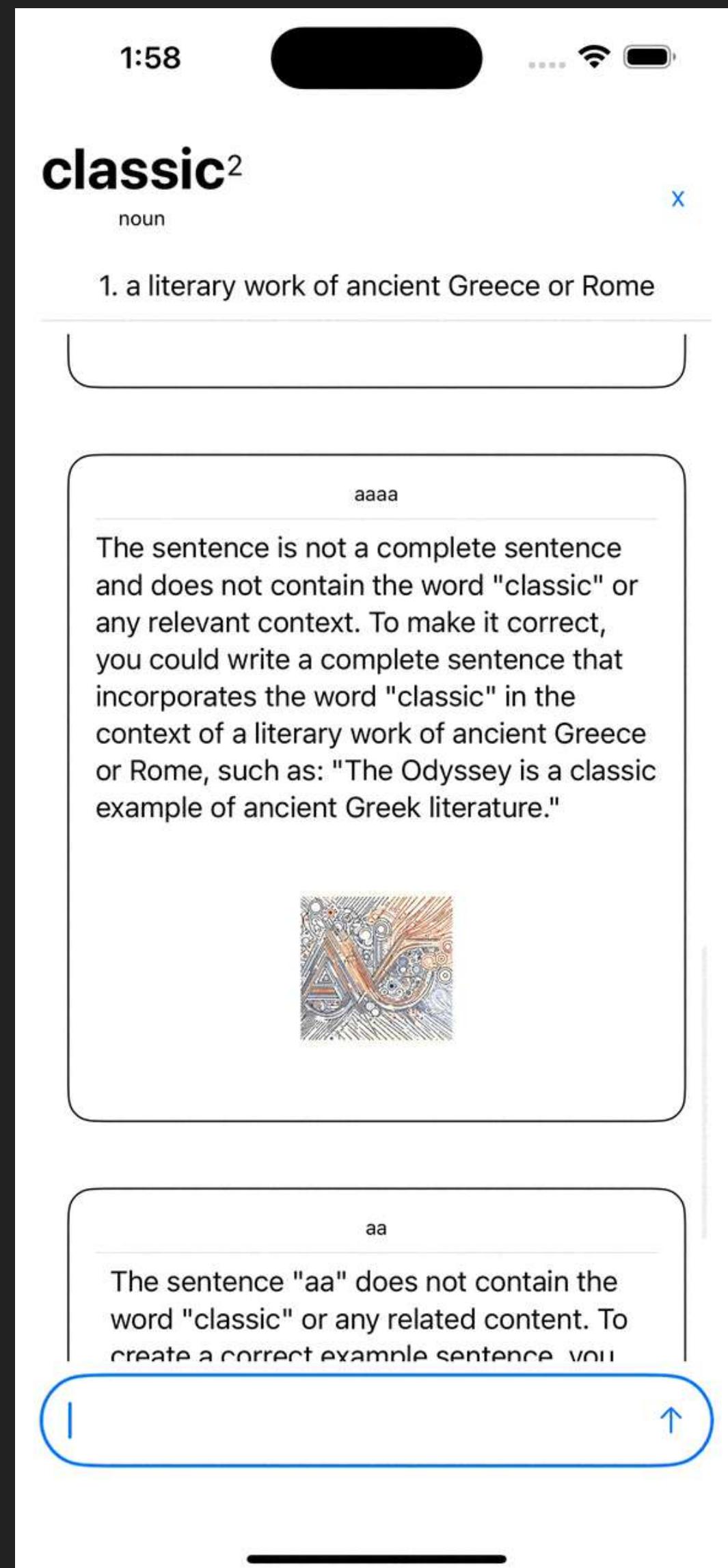
Final Design



Final Design



Final Design

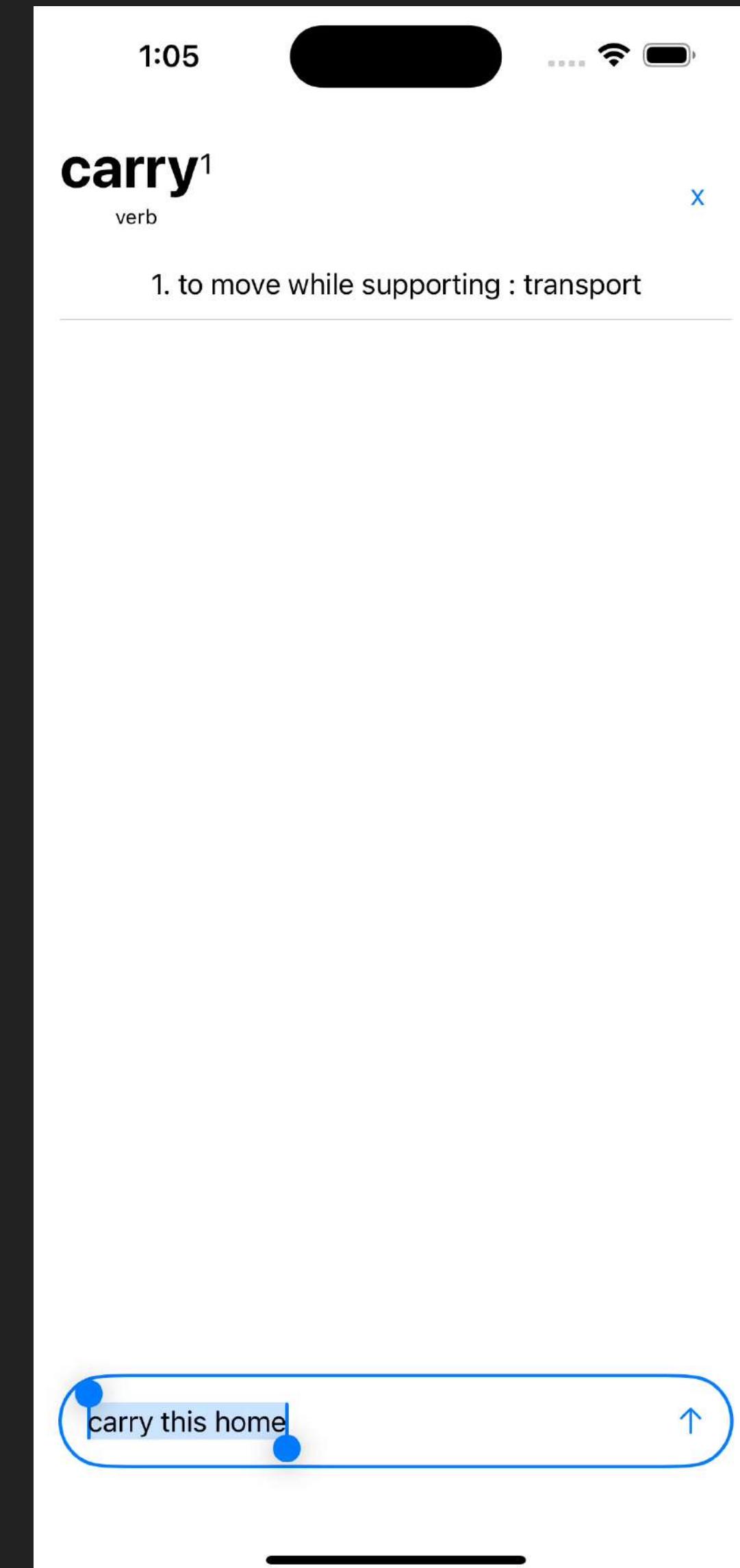


Challenges

Frontend

" Asynchronous update issue "

An "asynchronous update issue" refers to a problem where the state of an application's user interface (UI) does not accurately reflect the current state of the application's data due to the asynchronous nature of data fetching or processing operations.



Challenges

Backend

" Word List Generation "

1. Definition Acquisition
2. Realistic Solution: Web Crawling
 - a. Not without its flaws
 - b. Manual Review Required

```
"chant": {  
    "pos": [  
        "verb",  
        "noun"  
    ],  
    "meaning": [  
        "to make melodic sounds with the voice",  
        "song sense 1"  
    ]  
}
```



Challenges

Backend

" Image Generation "

1. Consistent results nigh impossible with just prompt engineering

2. Manual Review Required, even with Dalle-3

→ Human Labor Costs

3. Example: Chic

(smart elegance and sophistication especially of dress or manner : style)



Challenges

Backend

“ Image Generation ”

1. Consistent results nigh impossible with just prompt engineering
2. Manual Review Required, even with Dalle-3
→ Human Labor Costs
3. Example: Chic

(smart elegance and sophistication especially of dress or manner : style)



Limitations

" Choosing the Right Meanings "

1. Which definition of a certain word

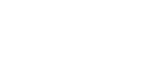
is used most commonly?

2. Solution: Ask ChatGPT for two definitions



You

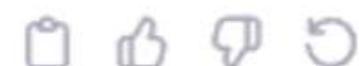
list two common definitions for the word "chant" without any frivolous explanations



ChatGPT

Certainly, here are two common definitions for the word "chant" without any additional explanation:

1. A repetitive and melodious vocalization of words or phrases, often used in religious or spiritual ceremonies.
2. The rhythmic repetition of words, phrases, or slogans, typically in a vocal and collective manner, often used in protests, sports events, or other group activities.



Evaluations : Project Results

Achieved Alpha Build

1. Implemented all major features
2. Frontend & Backend Linked
3. To go "Gold" :
 - a. User Authentication & Security Measures
: Currently only OAuth with KakaoLogin present, but not being used
 - b. Firebase Database Sync
 - c. Long Term User Testing : Test practical application of our Study System
 - d. More Application UI/UX Iteration



Evaluations : Project Results

Final Thought

1. Appropriate Communication Platform
2. Feature Creep
3. Flexible Requirements are a Good Thing, Right?



Demonstration

 VOCARD

